

From boatanchors@theporch.com Wed Apr 12 18:06:21 1995
Date: Wed, 12 Apr 1995 14:38:10 -0500
Message-Id: <797715344.2804549@AppleLink.Apple.COM>
From: FRANCIS4@applelink.apple.com (Francis, Dexter)
Subject: 1750 m vs. 1700 kHz

Hmmm....

My 757GX (appologies to the die hard hollowstaters) will RX and TX as low as 1300 kHz. Perhaps I've been missing out on some fun? Also, if the low end of the 1750 meter band is 1600 kHz, what of the new AM BC extension up to 1710? Is this a shared use portion of the spectrum now?

-df

From boatanchors@theporch.com Thu Apr 13 01:46:18 1995
Date: Wed, 12 Apr 1995 22:46:06 -0500
Message-Id: <9504122158.aa19510@jackatak.theporch.com>
From: Fire Bottle archive handler <firebotl@jackatak.theporch.com>
Subject: 1750 m vs. 1700 kHz

> Hmmm....
Indeed, hmmmmm...

Seems like this week is NOT the week for the slide rule set!

> My 757GX (appologies to the die hard hollowstaters) will RX and TX as low as
> 1300 kHz.
Which still leaves you about TEN times too high in frequency! The 1750 meter band is 160 to 190 KHz, not in the broadcast band (540-1600 KHz)!

> Perhaps I've been missing out on some fun?
Yes, and until you find a real lowfer receiver, I'm sorry to say.... ;^)

> Also, if the low end of the 1750 meter band is 1600 kHz
Whoa... that would be 175 meters, not 1750... remember 160M is at 1700+

> Is this a shared use portion of the spectrum now?
Nope... only a few experimentors (more all the time) are willing to play at 1750... read the rules and try a good oiled cloth on your slide rule and remember to move the decimal point! ;^)

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -
firebot1@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

From boatanchors@theporch.com Wed Apr 12 11:34:41 1995
Date: Wed, 12 Apr 1995 08:28:47 -0500
Message-Id: <950412132535_72227.1640_EHM100-2@CompuServe.COM>
From: Dave Stinson AB5S/7 <72227.1640@compuserve.com>
Subject: 1750 METERS

Concerning 1750 meters:

I've got a very long history on this band and if the
BA people are interested, I'll do a series of info
pieces and see if Jack will put them on the
listproc for downloading.

You many use *ANY* mode, including anything you can
dream-up, in the 1750 meter band. You must keep
any emissions outside the band down at least 30 DB.
You may use 1 watt input. The antenna can be up to
50 feet long, including feedline. Now, that's linear
length from top to bottom, *NOT* how much wire or
capacitive top hat you have--a point of confusion for
a long time.

We've used some pretty exotic modes on 1750. One
christmas, I had a USB beacon playing xmas music and
identifying on a tape loop. 100% perfectly legal and
copied 100% Q5 in the San Fransisco bay area all the
way from Las Vegas.

Now, this band is *VERY* challenging and will
seperate the half-hearted from the real devoties quickly.

If I hear enough interest, I'll get some info up.

73 DE AB5S/7
Dave Stinson
Lost Wages, Nevada

P.S. SSB reception record Jan 10, 1985 8LXJ Ohio
to NTS Nevada (me) about 1200 miles. 1st coast-to
coast CW in 1984 New Jersey to California coast.

From boatanchors@theporch.com Wed Apr 12 13:17:14 1995
Date: Wed, 12 Apr 1995 10:13:38 -0500

Message-Id: <Pine.SUN.3.91.950412080941.12121A-100000@crl4.crl.com>
From: Steven Wilson <randyw@crl.com>
Subject: Re: 1750 METERS

Hi Dave, I would be interested in your comments on 1750. At present I am building a complete BPSK/CCW station locked to WWVB. Most of the circuitry is uP based. de stan AK0B e-mail via randyw@crl.com

From boatanchors@theporch.com Wed Apr 12 13:54:59 1995
Date: Wed, 12 Apr 1995 10:48:21 -0500
Message-Id: <9504121612.AA103838@csemail.cropsci.ncsu.edu>
From: rdkeys@csemail
Subject: Re: 1750 METERS

Dave.... Do tell more about the 1750 meter band. I sense a great urgency from my ancient RAK or Mackay 3001 in that it wants to ply them thar waters again, matey.....

What better use for an ancient mariner regenerative receiver and venerable Hartley oscillator at 90 vdc on the plate of the '01A?

Ahhhh, ya's made me day, there, matey.....

Fair winds an' following seas, they be, with the crackle and din o' spark an' self rectifying Hartleys gently emanating from de ol' Baldie micas, resting upon the ears.....

73/Bob/NA4G

p.s. what better way to get a local CW freak, across the back yards up to 50 wpm..... (:+{}{}.....

p.p.s. with loose couplers, band-pass filtering, careful tuning, and a decrement of 0.1, maybe even a class B wave would be workable down there..... (:+{}{}.....

Happy Happy Joy Joy.....

From boatanchors@theporch.com Wed Apr 12 17:19:31 1995
Date: Wed, 12 Apr 1995 14:27:00 -0500
Message-Id: <Pine.3.89.9504121445.A29696-01000000@indy2>
From: "Roberta J. Barmore" <rbarmore@indynet.indy.net>
Subject: Re: 1750 METERS

On Wed, 12 Apr 1995 rdkeys@csemail.cropsci.ncsu.edu wrote:

> p.p.s. with loose couplers, band-pass filtering, careful tuning,
> and a decrement of 0.1, maybe even a class B wave would be
> workable down there..... (:+{} }.....

Baaaaahhhhhb! Tch, tch--*spark?* Why not rig up an old *arc*
rig--one of those carbon and alcohol-drip jobs? They've a much purer
wave, you know, which makes it easier to get a decent decrement.

...All you need now is a Kolster Decremeter. Shouldn't be too
expensive, considering there hasn't been much call for them since around
1930!

Of course a nice self-rectifying rig with a 400-cycle supply would be
fun. For that matter, d'ye remember "resonant" power-supply filters?
Strips out the fundamental hum, but leaves all the harmonics! Sure to be
distinctive. Might irk some of the ultra-techy amongst the Lowfers,
however. :)

(Forsooth, I would not mind hearing more about 1750m--though unless
the proper LF coil for the HR0-5 falls out of the sky, I probably won't
be able to do much with the information!)

73,
--Bobbi

From boatanchors@theporch.com Wed Apr 12 07:24:58 1995
Date: Wed, 12 Apr 1995 04:40:58 -0500
Message-Id: <9504120939.AA17974@kahuna.math.hawaii.edu>
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Subject: 1750M

Gang,
I just saw a report concerning the NTIA accepting the ARRL's
proposal of more ham bands. One band that was mentioned,
1750 meters (160-190 kc), was spoken about on here a couple
weeks ago. Hoping that the NTIA follows through and gives
this over to hams (so the severe power and antenna restrictions
are removed!) I've enclosed a bit of current info regarding 1750M so
as to answer the query posed earlier.

Does one need a license to operate on this band? No. This means that
you can choose your own callsign although callsigns are not required.

What is this band for? Experimentation mainly. It is especially fun to attempt QRP operation and one respondent said that given the right type of modulation and antenna setup, signals can travel 1000 miles or more with just under one watt output! Lots of folks use CW beacons and there is a radio club called The Lowfers (Low Frequency Users, presumably). Be aware that this IS NOT a ham band although several LF receiver manufacturers boast that their units can "receive the 1750-meter ham band". You will not find discussion of this band in the ARRL publications BECAUSE it is not a ham band. Perhaps some of the confusion here arises from the use by LF operators of ham radio callsigns. Many hams also operate in this band and use their own calls for identification, even though, as mentioned above, a callsign is not required here.

What is the frequency limits of this band? The 1750 meter band spans from 160 to 190 KHz.

What types of modulation may be employed? You may use CW and AM voice. You may be allowed others (FM, RTTY, etc). But the data I was able to get together was sketchy on this point. One person though said that there are no restrictions on modulation methods.

What are the legal power limits and other transmitter-related restrictions? Transmitter power is limited to somewhat less than one watt output. The maximum power INPUT to the final should not exceed one watt. The length of the antenna added to the length of the feedline MAY NOT exceed 50 feet. Spurious emissions outside the band must be 60db below the signal strength at the carrier frequency.

Who may use the band? Anyone, so long as they comply with the above regulations.

Where can I get more definitive and detailed information on this band? The band is discussed in Part 15 of the Code of Federal Regulations which you can pick up at your local library (assuming it is a fairly big library) or you can order it from the nearest US Government Bookstore.

The news release I mentioned also spoke of creating a 50 kc wide ham band near 5 Mc, and additions to the 10, 12, 18, and 30 meter bands, along with some slices between 30 and 50 Mc.

Way to go ARRL!

73 from Hawaii,
Jeff NH6IL (ex WA6QIJ)

From boatanchors@theporch.com Thu Apr 13 03:07:48 1995
Date: Thu, 13 Apr 1995 00:29:55 -0500

Message-Id: <9504130529.AA22154@kahuna.math.hawaii.edu>
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Subject: 1750m

So what boatanchor gear will operate on 1750? Seems only certain military rigs would have that capability. Wonder what Don Merz has for that band. [Hey Don: How about providing a list of your 1750M-capable gear?]

If we get 1750 as an amateur band (with full power and no antenna restrictions) one wonders how the manufacturers will respond.

I'll try to be the first to bridge the Pacific if I can get a rig.
(Uh oh - I feel another beacon project coming to life!)

73 from Hawaii,
Jeff NH6IL (ex WA6QIJ)

From boatanchors@theporch.com Wed Apr 12 20:36:38 1995
Date: Wed, 12 Apr 1995 17:19:35 -0500
Message-Id: <n1414415405.79263@msmailgw1.arlut.utexas.edu>
From: "rohre" <rohre@arlut.utexas.edu>
Subject: BA's at Austin TX Swapmeet

There were some BA sightings at our local meet. I told a couple of guys I would post their stuff to the Net. Got delayed getting their cards in to work, but if you are anxious, here goes. I might comment that the prices seemed perhaps high for this area on both these vendors, but I really was not in the mood for serious haggling, as I was helping run the event, and had other duties, and just quickly passed by the tables a couple of times to "get my fix".

The first was a DX100B Heath trans. with Hallicrafters SX 100 rcvr. "with some spare tubes"? I wrote down. Also an antenna relay. Selling as one lot for \$250. But the reason I thought this not my style, was the Heath did not have original Load and Driver knobs, nor did the SX-100 have the original bandspread knob, and the replacements did not add to the units.
Contact is: Tony Napoli, P.O. Box 304, Cibolo, TX 78108, which is outside San Antonio, near Randolph AFB. Sorry, no phone given me.

The other vendor was from Houston area, and was pulling a packed trailer with a packed pick up of BA stuff. Again, I thought some prices high, like on the Hammerlunds, but you have to understand, a couple years ago I got a HQ-180 for \$125 in excellent working condition with original manual. Anyway: A good condition Hammerlund 100A, a good Hammerlund nuvistor HQ-110A, a good Globe Scout 680. A Heath 6M HA 20 Amplifier. A Globe 65B, (rough). A RCA Victor "Trans Oceanic clone" dirty but restoreable. A homebrew AM KW in the old black rack, with large globular glass tubes, it was inside the crowded

trailer, and could not get close enough to read the tube types. Probably late 30's to post war vintage. Really long GLASS "dogbone" transmitting antenna insulators!

Ceramic Birnbach center dipole insulators, \$5 each. None of the prices were marked, and although I questioned the price on the Hammerlunds, and Globes, they seemed high so I did not write them down, as he had other customers giving me no chance to confirm if that was firm, he told another a price was. He also had some old Collins AM transmitter with the horizontal chrome strips across the front, (Sorry I did not get the model). For further info, contact: Lon W. Cottingham, 1110 Golden Bear Lane, Kingwood TX, 77339, phone (713) 358-4207. Lon is K5JV, and ex KH6, KC6, KG6, and XW8BT, so he may be ex military, and I think he had some Command set stuff of the black case ARC -5 models.

Please don't contact me, contact the owners directly. I am in no way connected or endorsing them, standard disclaimer, etc.

--73, Stuart K5KVH

From boatanchors@theporch.com Wed Apr 12 02:33:21 1995

Date: Tue, 11 Apr 1995 23:52:49 -0500

Message-Id: <199504120434.VAA11219@netcom14.netcom.com>

From: dgf@netcom.com (David Feldman)

Subject: Brother can you spare a 6AQ5?

I'm resurrecting a very abused Drake TR4. I'm in need of a replacement 6AQ5 tube (the audio output tube). I'd be grateful for a usable tube (new or used is fine). Please let me know if you have one to spare!

Thanx!

73 Dave WB0GAZ dgf@netcom.com

From boatanchors@theporch.com Wed Apr 12 10:35:56 1995

Date: Wed, 12 Apr 1995 07:53:40 -0500

Message-Id: <1ADAC206FF4@s1.xetron.com>

From: "Jack Giehl" <JACKG@s1.xetron.com>

Subject: Re: Brother can you spare a 6AQ5?

Dave,

A friend of mine whom I got back on the air with a Viking I and an HQ129X gave me 5 NOS 6AQ5 tubes. Send me you mailing address and I'll get one to you.

Good luck with the TR4. That is a nice radio except Drake forgot to put 160 meters on it.

Jack

73,

=====

Jack, WB8BFS

jackg@xetron.com Loveland, Ohio (near Cincinnati)

"Peak the grid, dip the plate, and keep the fire in the wire."

=====

From boatanchors@THEPORCH.COM Wed Apr 12 18:15:48 1995

Date: Wed, 12 Apr 1995 14:30:51 -0500

Message-Id: <9504121915.AA17555@uvs1.orl.mmc.com>

From: padgett@tccslr.dnet.mmc.com (A. Padgett Peterson, P.E. Information Security)

Subject: Re: Collectibles, What's UR Price?

> Some suppose, as the chiche goes, that everyone has their price.
> Maybe so, but I'm not creative enough to think of an amount or kind of
> currency which measures up to the exhilaration of the Elan's twincam or the
> deep filter skirts on my Collins 75-A3. Sure, better performers exist, but

Understandable except after the MG-1100 I had in 1973, I swore never to have
to convert another electrical system to Delco (am more of a Morgan +8 type
anyway).

The real key is that we tend to become attached to things (unlike dealers
who never do - perhaps that is why they are hard to understand), why I keep
my similarly totally impractical \$600 (original cost to me) GTO Judge.

> they don't have that je nais se qua (sp?).

I do: "it's called emotion"

> Re: > about the best thing you can say is "a bear's natural habitat".

Fozzie in "The Muppet Movie" (am a kitch cinema buff).

Warmly,
Padgett

From boatanchors@theporch.com Wed Apr 12 11:45:41 1995

Date: Wed, 12 Apr 1995 08:33:24 -0500

Message-Id: <950412132655_72227.1640_EHM100-3@CompuServe.COM>

From: Dave Stinson AB5S/7 <72227.1640@compuserve.com>

Subject: COMMAND SETS AGAIN!#@!

COMMAND SET AGAIN!

I'm looking for the following units to complete my
Command Set collection.

I've got several good pieces available for trade.

If anyone has any command set transmitter antenna relays sitting in their junk box (the one everybody used to tear out and throw away, including me in my foolish youth!) , I could sure use them. Several transmitters sit under my workbench, begging to be resurrected and needing only antenna relays.

I'm working on three complete sets- the aluminum 274N, the black wrinkle 274N, and the Navy ARC-5. My aluminum set lacks the shock mounts, a silver BC-456 modulator and a BC-451 transmitter control box to be complete. I don't think the BC-451 came in silver, though that would be nice.

The black 274N needs the 80-meter receiver and transmitter (BC-696 and BC-454) that are the black, wrinkle-finish units built by Western Electric. I'd take a BC-457 (4-5.3 Mc) if that's all I could get. They look like the Navy ARC-5 but have a black and silver tag on top of the unit identifying them as Army SCR-274. I also need a black Western Electric BC-442 antenna relay and the shock mounts for the two-transmitter and three receiver racks. I have the final parts coming to complete the Navy set.

Oh yes, and connectors! Never have enough connectors. I've been making be-zillions of single wires with molex pins on the ends to wire-up some things and hand-making connectors for others. I don't have a complete set of connectors on either army rig, but I'm within *ONE* of being complete on the navy job. I've had all the rigs on the air and working, and have checked into the 3870 am net with one of my Navy rigs, although my power supply crowbarred on me on a modulation peak and the T-17 mike sounds like doggie-doo. Still working on that.

I was going to put together an early-Navy ATA command set, but I lack too many pieces to tackle that one. I'll use those for trade stock.

Now, you know you've had that command set in the garage for seven years, thinking "I'll get around to it." You'd much rather work on your Johnson desk kilowatt, anyhow! Send

the poor wretch to the AB5S Home for
Wayward Command Sets, and we'll teach it
to sing ether waves again.

TNX ES 73 DE AB5S/7
Dave Stinson
Lost Wages, NV

From boatanchors@theporch.com Wed Apr 12 02:26:48 1995
Date: Tue, 11 Apr 1995 23:31:45 -0500
Message-Id: <Pine.SUN.3.91.950411211826.26970B-1000000@coyote.rain.org>
From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: DAQ or DAU?

No your source wasn't confused. Both Navy Models DAQ and DAU are 4-band
HF DF receivers, and both were made by Federal Telegraph and Radio Corp.
Both are AM, MCW, CW receivers.

DAQ nomenclature granted 1942
DAU nomenclature granted 1944 (essentially a DAQ with provision for
panadapter that covered +/- 75 Kc)

The DAQ would have had Navy Type Number CFT-46194
The DAU would have had Navy Type Number CFT-46243

A DAU-1 nomenclature was granted in 1944 for a model without antenna, but
later cancelled prior to production.

The source for model letters suggests the receivers covered 1.5-22 Mc;
the type number source suggests 1.5-30 Mc. No way to tell which was
accurate. The type number source also links the DAQ (46194) hardware to
the early Fifties experimental sets CXRN and CXRO.

As to which was installed in Canadian ships, you're on your own! Good luck.

From boatanchors@theporch.com Wed Apr 12 02:42:25 1995
Date: Wed, 12 Apr 1995 00:05:22 -0500
Message-Id: <Pine.SUN.3.91.950411214621.1145A-1000000@coyote.rain.org>
From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: DAQ or DAU? (more...)

Dummy me! Forgot to check the file cabinet.

Model DAU manual was SHIPS 301, dated 12 Sept 1944. Contract was
(another of those blasted prefixes!) NXsr-41007. Sure wish I had the

source that would explain "NXsr".

The receiver did cover 1.5-30 Mc in four bands; it was the direction finder that was limited to 1.5-22 Mc.

Components: CFT-46243 Receiver
CFT-69083-A Crossed-loop and sense antenna (sense antenna was ground plane mounted above crossed loop)
CFT-20241 Power Supply (included panadapter scanner circuitry)
CFT-47263-A Goniometer
CFT-55146 Automatic Bearing Indicator
CFT-52300 Target Transmitter (oscillator for bearing alignment)

The equipment weighed a total of 544.5 pounds! It was rigged as a console, with the power supply/scanner mounted above the receiver, and with the auto bearing indicator and goniometer mounted in a skeleton frame reminiscent of the modern Navy PPI indicators. Apparently, both bearing and frequency were presented on a 5-inch CRT. The system used 105-125 volt single-phase 55-65 cps power (about 500 watts worth). Receiver IF was 455 Kc, scanner IF was 150 Kc. This is the first one I've seen where the panadapter converter & IF etc. guts were in one box and the CRT was separate. 14 tubes in the receiver, 11 in the rectifier-power supply, 1 for the CRT, and two in the "target transmitter". All were the 6-volt black metal-cased octals, except rectifiers, voltage regulators, CRT, and 3B7 and 1R5 in the target transmitter. The cabinets were gray wrinkle enamel.

From boatanchors@theporch.com Wed Apr 12 13:52:47 1995
Date: Wed, 12 Apr 1995 10:55:52 -0500
Message-Id: <m0rz4kE-0000HXC@juts.ccc.amdahl.com>
From: joe.selkregg@amail.amdahl.com
Subject: Data needed, SLR-H

Hello,

I purchased a reasonably nice (no extra holes) Scott SLR-H maritime receiver over the weekend.
Does anyone know where I could obtain a schematic and or manual for this unit?

Thank you,
Joe Selkregg

From boatanchors@theporch.com Wed Apr 12 14:08:07 1995
Date: Wed, 12 Apr 1995 11:09:10 -0500
Message-Id: <199504121608.AA03675@interlock.wdni.com>
From: "Turini, Bill" <turinib@wdni.com>
Subject: Re: Drake Parts

BA enthusiasts.

If you're looking for Drake parts, try

Bill Rovas WA1APX/8
7002 Rickett
Washington, MI 48094
(810)781-9717

He's one of the founders of the Drake net and if he doesn't have it can probably point you to where you can get it.

This is a blatant ad for a good friend and ex-neighbor. He's honest and helpful. He also deals with other BAs, especially Collins stuff.

73's

Bill KA4GAV/7

Weyerhaeuser

Largest non-governmental holder of frequencies in the US

From boatanchors@theporch.com Wed Apr 12 22:45:59 1995

Date: Wed, 12 Apr 1995 18:42:53 -0500

Message-Id: <199504122327.QAA27720@hobbes.UCSC.EDU>

From: haynes@cats.ucsc.edu (Jim Haynes)

Subject: Efficient loudspeakers

Dan Kerl suggests there is about to be a price run-up on old Klipschorns, Altec, JBL, etc. Of course there is a limit to this since you can still buy new Klipschorns. Unless the Golden Ear types maintain that the old ones sound better than the new ones. Which would be hard to maintain, since the drivers that were available to Klipsch in the 1950s were pretty bad. Oh, I know, the Golden Ears will want to retrofit Klipschorns with 1930s Western Electric drivers!

From boatanchors@theporch.com Thu Apr 13 01:40:50 1995

Date: Wed, 12 Apr 1995 22:25:29 -0500

Message-Id: <12975@sat.n5lyt.ampr.org>

From: ki5sl@sat.n5lyt.ampr.org (Rick_Blank)

Subject: Re: Efficient loudspeakers

Private site: Amateur Radio Station KI5SL

X-Mailer: PCElm 1.11

Lines: 34

In message <199504122327.QAA27720@hobbes.UCSC.EDU> haynes@cats.ucsc.edu writes:
> Dan Kerl suggests there is about to be a price run-up on old Klipschorns,
> Altec, JBL, etc. Of course there is a limit to this since you can still
> buy new Klipschorns. Unless the Golden Ear types maintain that the old
> ones sound better than the new ones. Which would be hard to maintain, since
> the drivers that were available to Klipsch in the 1950s were pretty bad.
> Oh, I know, the Golden Ears will want to retrofit Klipschorns with
> 1930s Western Electric drivers!
>

A few years back a buddy of mine was working for an OT stereo guy that was also a ham, W5FNA, at a high-end audio shop. One day when I went in my bud, David (not a ham), had brought in his New York Audio Laboratories Moscode 600 amplifier, a 300 watt per channel hybrid amplifier and hooked it up to a set of Klipschorns in one of the listening rooms...I'll admit I am a rocker...and he proceeded to put on Robert Plant's "Little by Little"....my heart rhythm changed to match that of the sound coming out of the Klipsch's...never before in my cruising of high-end stereo dealers did I hear a system that slapped you down in your chair a forbid you from getting up due to the sheer sound pressure levels that these monsters presented....no real distortion either...I'd like to see how my two Dynaco Stereo-70's would power a pair of them in my den, but, I just don't have the room! 20 watts Class-A would probably be quite pleasant with the Klipsch's....

--

Rick Blank, KI5SL
ki5sl@sat.ampr.org
2223 Blanco Road
San Antonio, Texas 78212
end

From boatanchors@theporch.com Thu Apr 13 02:01:31 1995
Date: Wed, 12 Apr 1995 23:03:21 -0500
Message-Id: <01HP9QDZHAUA8ZHGT0@delphi.com>
From: BOBFABRIS@delphi.com
Subject: Equivalent prices

There have been some words on what the current price of an old piece of gear might be. The March issue of the MidAtlantic Antique Radio Club contains a Consumer Price Index chart with CPI values from 1913 to 1993. Using the formula: current price equals old price times the ratio of CPI values, one gets a reasonably accurate value. The CPI ratio for 1940 to 1993 is 10; for 1950 to 1993 it is 6; and for 1960 to 1993 it is 5. Of course, I've rounded off, etc, this is just to give you an idea Bob

From boatanchors@theporch.com Wed Apr 12 09:48:53 1995
Date: Wed, 12 Apr 1995 06:34:26 -0500
Message-Id: <Pine.3.89.9504120738.C15110-0100000@grog>
From: GALBRAITH CHRISTOPHER <99galbra@lab.cc.wmich.edu>
Subject: FS: All my cool stuff...

Greetings troops,
Unfortunately this private is going out of business due to school/life,
etc..

I'll be back someday!

Here's some stuff right now...some of it's is worth some money, so I may
be stingy--tuition ain't cheap either!

Viking Ranger I -- Mint (I mean it) w/orig. manual	***make offer over \$250
Viking II/122VF0 - Good/VG w/orig. manual	***make offer over \$150
Collins 75A2 - VG/Excellent w/copy manual (nice)	***make offer over \$240
DX-100 parts rig -all there, needs some work, no case	\$50 plus shipping
RME 4350A -VG/Excellent w/manual copy	***make offer over \$130
Matchbox 250W -VG w/manual copy w/meter	***\$125

I'll have more to follow!
p.s. plus shipping--I'm in Kalamazoo, MI
73, and take care you great group!
Chris, KA8WFC

From boatanchors@theporch.com Wed Apr 12 12:23:06 1995
Date: Wed, 12 Apr 1995 09:24:06 -0500
Message-Id: <2F8BEFD6@smtpgate.ball.com>
From: Mike Mussler <mmussler@ball.com>
Subject: RE: FS: All my cool stuff...

Chris,
I have a friend in Flagstaff who desperately needs a DX-100 parts rig.
Please send me your address and phone number and I will forward the info to
him (he is not on Internet) or you can contact him at:

Brian Crum, AI7Z
PO Box 31061
Flagstaff, AZ 86003

Many thanks!

Mike Mussler, AI8Z

>From: boatanchors
To: Multiple recipients of list
Subject: FS: All my cool stuff...
Date: Wednesday, April 12, 1995 6:34AM

Greetings troops,
Unfortunately this private is going out of business due to school/life,
etc..

I'll be back someday!

Here's some stuff right now...some of it's is worth some money, so I may
be stingy--tuition ain't cheap either!

Viking Ranger I -- Mint (I mean it) w/orig. manual	***make offer over \$250
Viking II/122VF0 - Good/VG w/orig. manual	***make offer over \$150
Collins 75A2 - VG/Excellent w/copy manual (nice)	***make offer over \$240
DX-100 parts rig -all there, needs some work, no case	\$50 plus shipping
RME 4350A -VG/Excellent w/manual copy	***make offer over \$130
Matchbox 250W -VG w/manual copy w/meter	***\$125

I'll have more to follow!
p.s. plus shipping--I'm in Kalamazoo, MI
73, and take care you great group!
Chris, KA8WFC

From boatanchors@theporch.com Wed Apr 12 13:43:01 1995
Date: Wed, 12 Apr 1995 10:41:06 -0500
Message-Id: <199504121540.JAA00240@atd.atd.ucar.EDU>
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: GP7 TRANSMITTER

Does anyone out there have any experience with the
GP7 aircraft transmitter? Has anyone put one of these
on the ham bands? Any info beyond the basic frequency
coverage and power output (which I have) would be
appreciated. Tube lineup? VFO or xtal control?

Thanks!
Chip Owens, NW00

From boatanchors@theporch.com Thu Apr 13 01:37:14 1995
Date: Wed, 12 Apr 1995 22:13:58 -0500

Message-Id: <950412225229_81392454@aol.com>
From: KD0HG@aol.com
Subject: Hallicrafters Styling

In all the discussion of style, I haven't seen mention of what I consider to be far and away the most stylish deco inspired Loewy Hallicrafters rig--the SX-23. What a beaut! If you don't know what one looks like, you're missing something. 73, <bill>

From boatanchors@theporch.com Wed Apr 12 20:32:57 1995
Date: Wed, 12 Apr 1995 17:30:54 -0500
Message-Id: <n1414414689.23271@msmailgw1.arlut.utexas.edu>
From: "rohre" <rohre@arlut.utexas.edu>
Subject: Hammerlund HQ 180 worth

Carl Heinz asked about a couple of Hammerlund values. Like others have said before-- it depends; on paint condition, original knobs, with speaker, clock, etc.

I got the HQ-180 about 2 years ago, and I don't remember the suffix (here at work), with speaker, clock and original manual. Part of the Model no. logo is broken, but the cabinets are almost like new, and only one dial window has yellowed. The receiver appears to work very well, and I paid \$125 while helping the vendor sell some other BA test equipment and ham gear. Mine is all original knobs, no mods., etc. I also have a pre-WW 2 Super Pro 210, which was my second ham receiver in 1959, so I liked Hammerlunds, but would not pay a premium for them. They are becoming more scarce it seems, and not as common as Hallicrafters. The 180 has said to be a fine receiver, but it sure uses lots of now getting scarce tubes! I would also like to know what the group thinks is a "going" price.

BTW, anyone know a source of material to exactly replace the yellowed dial window? I do have the name of the Hammerlund dealer someone posted. If I knew what the material is, I would just make my own I think.

Carl, let us know what you may hear from direct messages to you.
73, Stuart K5KVH

From boatanchors@theporch.com Wed Apr 12 11:48:05 1995
Date: Wed, 12 Apr 1995 08:39:59 -0500
Message-Id: <Pine.BSI.3.91.950412092554.532C-100000@laurel.us.net>
From: Tony Stalls <ras@us.net>
Subject: Re: Hammerlund Source

On Tue, 11 Apr 1995 Richard Biddle wrote:

> A nice gentlemen responded to one of my prior posts on a source
> of parts for an HQ-145X. He mentioned Bob Fowler in Michigan.
> I checked the issues of ER I have handy and did not see Bob's
> address or number. Can anyone provide this info?

Richard,

The guy you want is:

Robert Fowle
Amateur Radio Surplus
1215 Winifred
Jackson, MI 49202-1946

517-789-6721

I have had very pleasant dealings with him. He seems to be a good guy with his only noticable flaw being an unabashed love for things Hammarlund.

With this BA cost thread fresh in my mind, let me say that Robert has scoured the countryside trying to build a little business providing good and NOS replacement parts for Hammarlunds. I think he asks fair prices for his parts, especially considering that he is providing exact replacement parts by part number and how much time and effort he has put into building his inventory. I know for sure that he's a couple of light years away from getting rich doing this too. As I said, he just loves Hammarlunds.

73,

Tony
K4KY0

From boatanchors@theporch.com Thu Apr 13 04:52:23 1995
Date: Thu, 13 Apr 1995 02:45:44 -0500
Message-Id: <Pine.ULT.3.91.950413004305.21008D-1000000@ohm.elee.calpoly.edu>
From: Cal Eustaquio <ceustaqu@ohm.elee.calpoly.edu>
Subject: Harvey Wells TBS-50 p.s. WTB

Help!

I'm in need (read want!) of the power supply for the Harvey Wells Bandmaster Xmtr (TBS-50). If anyone has a spare they can sell, I would like to hear from you. Thanks. Cal, N6KYR

From boatanchors@theporch.com Wed Apr 12 10:53:47 1995
Date: Wed, 12 Apr 1995 08:09:10 -0500
Message-Id: <199504121308.GAA04670@ix4.ix.netcom.com>

From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: Heath HD-15 Phone Patch Schematic

Does anyone happen to have a copy of the schematic and user instructions for the Heath HD-15 phone patch? I recently picked one up at a hamfest, and want to send it to a friend in the Caribbean who has been looking for a phone patch.

Thanks,

- Jeff, WA6AHL

From boatanchors@theporch.com Wed Apr 12 20:48:40 1995
Date: Wed, 12 Apr 1995 17:41:49 -0500
Message-Id: <9504122240.AA02423@texan.frco.com>
From: bill@texan.frco.com (William Hawkins)
Subject: homemade vacuum

The plan for beer bottle vacuum tubes didn't take the hot water idea far enough. If you fix it so that you can boil water in one vessel and blow steam from it through your "tube" and out through a sealable hole, then you can use steam to sweep the air out of the tube. After a while, remove the heat from the boiler, and just before it stops boiling, seal the vent. It needs to stop boiling real soon after you seal it. Then chill the water left in the boiler down to freezing. According to the steam tables, you will have a vacuum of about 0.2 inches of mercury. Seal off and break the tube from the boiler and there you are.

Now, 0.2 inch of mercury is a respectable vacuum for a mechanical pump, but I don't think it comes near to what you need to run a tube without a blue glow. Maybe somebody who bought one of those old books can tell us what pressure you need for a glow tube, like a Geissler tube.

A word about science fairs - when I was a high school junior (1954), I won the local fair (1st prize) with a collection of equipment that accomplished remote control of a stereo hifi with a tone generator. Three chassis full of war surplus stuff, used a dynamoter backwards to get 28 VDC for the relays 'cause HVDC was easier to get. At the regional fair at MIT, it got a technical award - not even 3rd place. I think I shared it with a guy who built a 6 foot Van de Graff generator. Next year I did one on tone generation with a rotating perforated disk and light source/photocell (923, I think). Showed the waveshape on a scope. Had all sorts of curves for different kinds and shapes of holes in the disk. Got a third prize because I'd investigated something, not just built it.

Hope some of that was interesting. Jet lag does strange things to the mind.

Bill Hawkins bill@bvc.frco.com (was bill@rosemount.com)

From boatanchors@theporch.com Wed Apr 12 21:51:40 1995
Date: Wed, 12 Apr 1995 18:47:45 -0500
Message-Id: <9504122343.AA18412@uvs1.orl.mmc.com>
From: padgett@tccslr.dnet.mmc.com (A. Padgett Peterson, P.E. Information Security)
Subject: RE: homemade vacuum

Just a dumb question but am ignorant - what happens if you fill the tube with an inert gas ? (know not all are). Inert gas at partial vacuum ?

P.fl

From boatanchors@theporch.com Thu Apr 13 00:29:06 1995
Date: Wed, 12 Apr 1995 21:43:05 -0500
Message-Id: <9504130238.AA02585@texan.frco.com>
From: bill@texan.frco.com (William Hawkins)
Subject: RE: homemade vacuum

Inert gas is what's in voltage regulator tubes. You basically have to get everything else out of the way of those electrons streaming from the filament/cathode to the plate, in order to get rated gain, linearity, power capacity, etc. Don't know what acceptable vacuum is, but those diffusion pumps go really low.

Bill Hawkins bill@bvc.frco.com

From boatanchors@theporch.com Thu Apr 13 00:50:39 1995
Date: Wed, 12 Apr 1995 21:32:37 -0500
Message-Id: <Pine.SUN.3.91.950413112710.13553F-100000@eram.esi.com.au>
From: Dave Horsfall <dave@esi.com.au>
Subject: RE: homemade vacuum

On Wed, 12 Apr 1995 padgett@tccslr.dnet.mmc.com wrote:

> Just a dumb question but am ignorant - what happens if you fill the tube
> with an inert gas ? (know not all are). Inert gas at partial vacuum ?

It, err, gets in the way of the electrons?

> P.fl

One day I'll figure out what that means...

--

Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2AAB.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | E7 FE 97 88 E5 02 3C AE 9C 8C 54 5B 9A D4 A0 CD

From boatanchors@theporch.com Thu Apr 13 02:19:19 1995
Date: Wed, 12 Apr 1995 23:16:56 -0500
Message-Id: <Chameleon.4.01.2.950413010149.jproc@>
From: jproc@worldlinx.com
Subject: RE: homemade vacuum

>Just a dumb question but am ignorant - what happens if you fill the tube
>with an inert gas ? (know not all are). Inert gas at partial vacuum ?

>

> P.flu

>

With inert gas, it has to be an all or nothing deal within the envelope. If you have a partial vacuum, it's the same as having partial air. It is the purity and blend of the inert gases which give voltage regulator tubes and thyatrons their various operating characteristics. I suppose if you try and make your own cold cathode tube with a blend of air and inert gas, the striking voltage would probably end up being so high as to render the tube impractical for normal applications and the characteristics would also be unstable .

The usual inert gases that are used are: neon, nitrogen, helium, argon, krypton, xenon or various blends of these gases. Nitrogen is not part of the inert gas group on the periodic table of elements, but it's used nonetheless.

My electronics teacher at college once made a crude triode (make that crude with a Capital C). After evacuating the bulb and sealing it off, he measured the characteristics and they were pathetic. Needs to say, he did not pursue this venture any further.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida Toronto, Ontario

From boatanchors@theporch.com Thu Apr 13 02:51:40 1995
Date: Wed, 12 Apr 1995 23:42:38 -0500

Message-Id: <Pine.3.89.9504122137.A14928-01000000@netcom23>
From: paul Veltman <veltman@netcom.com>
Subject: RE: homemade vacuum

On Wed, 12 Apr 1995 padgett@tccslr.dnet.mmc.com wrote:

> Just a dumb question but am ignorant - what happens if you fill the tube
> with an inert gas ? (know not all are). Inert gas at partial vacuum ?
>

Padgett,

We're not warm anymore?

Seriously, I believe that in a valve, we are trying to control the flow of electrons in a stream across space. If there is any gas in the tube (except for those designed to operate in a gassy environment), then electrons from the grid flowing to the plate will collide with the gas atoms and the desired characteristics will not be achieved.

I believe that is the way the theory goes, but that was in high school, and that was 35 years ago (oh my creaking bones).

73

Paul

From boatanchors@theporch.com Wed Apr 12 01:08:48 1995
Date: Tue, 11 Apr 1995 21:55:59 -0500
Message-Id: <9504112145.aa03691@jackatak.theporch.com>
From: Fire Bottle archive handler <firebotl@jackatak.theporch.com>
Subject: In case I forgot to mention it...

The latest posting to the archive system is a list of military crystals...

to retrieve it, send an email to:

listproc@theporch.com

and then in the body:

get boatanchors military.crystals

You may want to send for an index of files so you can see what has been added lately. Send additional contributions via email to

listtown@jackatak.theporch.com

Thanks, gang.

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
| Jack GF Hill |Voice: (615) 459-2636| Ham Call: W4PPT |
* P. O. Box 1685 |Modem: (615) 377-5980| Bicycling and SCUBA Diving *
| Brentwood, TN 37024|Fax: (615) 459-0038| Life Member - ARRL |
* listown@jackatak.theporch.com firebotl@jackatak.theporch.com *

From boatanchors@theporch.com Wed Apr 12 14:02:04 1995
Date: Wed, 12 Apr 1995 11:02:25 -0500
Message-Id: <Pine.BSI.3.91.950412115313.532H-100000@laurel.us.net>
From: Tony Stalls <ras@us.net>
Subject: Last Call - HT-37

You probably recall my frequently advertised HT-37 that still sits on the shelf. The first problem with it is that it's a piece of junk. It is dirty, the knobs don't all match, the controls have been turned so much that fingers rubbing on the panel have worn off the lettering, and the cabinet has been "Rust-oleum" strayed a dull gray. The second and much worse problem is that the damn thing works, or at least it did a year ago when I last plugged it in.

The latter "problem" is the only thing that has saved it from being turned into a parts unit, but that time is about to come to an end. I need some HV power supply components and my long planned homebrew CW transmitter is on the drawing board. Buying the parts I need, particularly for the power supply, will cost far more than this beast is worth, so unless I find the components I need at Dayton, this thing will be history.

Does anybody have any suggestions that might save this old BA from the chopping block?

73,

Tony
K4KY0

From boatanchors@theporch.com Wed Apr 12 14:20:00 1995
Date: Wed, 12 Apr 1995 10:43:44 -0500
Message-Id: <199504121542.LAA11787@altair.cs.unc.edu>
From: Nick England <nick@cs.unc.edu>
Subject: Loewy Hallicrafters

Raymond Loewy's book "Industrial Design" is a wonderful showcase of hundreds

of his designs. Two pages show some photos of his Hallicrafters work.
S-40, SX-42, R-42 speaker, 1947 walkie-talkie, TV in the same
styling/cabinet as the SX-42

Loewy writes "In the late sixties, the Japanese discovered and built upon
the Hallicrafter "look"; they have used it ever since. The Japanese "lead"
became the international style and this trend continues."

Nick KD4CPL

From boatanchors@theporch.com Wed Apr 12 22:24:52 1995
Date: Wed, 12 Apr 1995 19:46:09 -0500
Message-Id: <PMX-TERM-2.02-bsm2ee1-thaake-84>
From: thaake@bsm2ee1.attmail.com (thaake)
Subject: MORE PAINT

Anchorites,

Recall my inquiry a few days ago for wrinkle paint help....

I am making some progress with coming up with several solutions. I will post
a message soon with some supplier names for a few types of paints and colors.

Another option which I am pursuing on my own is buying paint to match several
of my projects. Conversation with 2 suppliers has posed the question as to
how much of each type I want and how do I want it packaged. I intended to
take the canned option but the spray bomb option is available with some of the
custom paints if I want it.

I am having paint mixed to match National cabinets which have the light and
the dark gray colors, the Gonset light gray and dark gray, and the Collins
light gray and dark gray (St. James Gray). These are all gloss colors with
the exception of the St. James Gray which needs to have a flatener added.

The wrinkle finish (this one is harder to get) will be black, light gray, and
dark gray (St. James Gray).

In my local BA circle here in the St. Louis area I have 4 people who want some
of it when I get it. Question is do any of you want some and of what type for
what radio?? Can (what size), or bomb let me know.

I'm already on tap for the National grays and the Collins dark gray but
haven't made any commitments on the other colors and also have not made any
commitments on spray bombs.

Let me know and I'll get back to you as soon as I can with how may 201s it will cost you.

Tim WA0TSY
thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Wed Apr 12 04:31:36 1995
Date: Wed, 12 Apr 1995 01:54:05 -0500
Message-Id: <Pine.3.89.9504112312.A3241-01000000@netcom4>
From: "Hal R. Waite" <halwaite@netcom.com>
Subject: Need Manual for the Westmore Model 501 Tube Analyzer

This tube checker is not as easy to use as the Hickoks. The roll chart is cryptic and one can apparently check more than one tube section without changing the settings. I would appreciate any comments on the capability of this unit as compared to a Hickok 6000A, etc.

I would be of course willing to pay for copy costs and mailing. Thanks in advance.

Hal K4GFI/7 Las Vegas halwaite@netcom.com

From boatanchors@theporch.com Wed Apr 12 12:48:14 1995
Date: Wed, 12 Apr 1995 09:16:30 -0500
Message-Id: <Pine.SUN.3.91.950412101020.13509D-1000000@little-miami.iac.net>
From: Bill Strangfeld <bstrang@iac.net>
Subject: New Fair Radio catalog

I tried to post this yesterday but something happened (or didn't happen). If anyone gets this twice, apologies.

REPOST:

Visited Fair yesterday to find parts for my BC-429/430 setup. They said the new catalog will be out around tomorrow, Wednesday, April 12. I didn't see it so don't know what will be in it.

There was a beautiful R-388 on display that was in splendid condition -- difficult to tell from new. It seemed pricey though, at \$450. Apparently they have a bunch of these and they'll be in the new catalog. The counter man didn't know anything about them such as whether they had the mechanical filter mod.

Also saw a chopped up NC-101 for \$45. Someone had cut the front panel to mount a different dial assembly. Pity. The National PW dial was still

there and it might be saveable.

Looked for command set items but found few. There were three command transmitters in the showroom ranging from about \$25 to \$40 dollars. They all looked uncut at a quick glance. The highest priced one hit a ham band (80m or 40m -- don't remember) and the others didn't. Found two flexible splined shafts, one receiver tuning knob, one shock mount, and a few right angle adapters for the tuning shafts. They also had some connectors but I'm not sure which ones.

There were two TCS transmitters on the shelf. One was a rough gray one at \$50. The other was a nice looking black set with the roller coil missing but I didn't check the price.

For the BC-429/430 sets, they had a big pile of receiver racks (FT-99, I believe) but none of the FT-100 transmitter racks. (If you have an FT-100 that you are willing to part with, I'd like to talk.) They also had some connectors and other pieces. If anyone is putting together one of these rigs, email me and I'll be glad to tell you what I saw.

Oh -- there was an ice storm in the morning -- 1/2" icicles on the April buds!

73 Bill wb8yuw

From boatanchors@theporch.com Thu Apr 13 00:29:28 1995
Date: Wed, 12 Apr 1995 21:42:08 -0500
Message-Id: <01HP9N0E074I8Y92UR@delphi.com>
From: DUBE2@delphi.com
Subject: Prices of collectibles

There habve been some "complaints" about pricing of collectible radios. For instance, someone mentioned not minding unloading on somebody who was asking what the writer thought was an exhorbitant price. Well, it's still a free enterprise system...even in collectibles. One thing's for sure: you don't hae to buy the stuff. Why unload on the seller? It's his stuff and he should be free to ask whatever he wants. His "punishment" is, as the writer suggested, the necessity of toting it around from place to place. Some people act as if they have the right to something at the price they want to pay.

But the way I see it, if you want it bad enough you will pay the price.

Value is, as others have stated, in the eye of the buyer. I think the price of some automobiles is too high, so I don't buy them. New rice-boxes are outta sight! So I don't buy them

either. When the price of a TS-850 comes down to half what it is now, I'll think about it.

Don't unload on the sellers. If their price is too high and they won't bargain, then just move on.

<dube2@delphi.com>

From boatanchors@theporch.com Wed Apr 12 21:21:19 1995
Date: Wed, 12 Apr 1995 17:50:35 -0500
Message-Id: <Pine.3.89.9504121733.C2758-0100000@indy2>
From: "Roberta J. Barmore" <rbarmore@indynet.indy.net>
Subject: Re: Re2: Collectibles, What's My Line

On Wed, 12 Apr 1995 FRANCIS4@applelink.apple.com wrote:
> Padgett signs: "Warmly"
> That's it! Boatanchor drivers have hearts (hertz?) with heaters.

Nope! To wit:

Padgett is from Orlando F-L-A;
Hitchiked his way across the U-S-A
With a T/O here and a T/O there,
The BA-list is the place where he said
"Warmly," as a joke on us Northies--
'Tis "Warmly," a sly dig at us cold folks.
(...etc...)

Padgett is just crazy today;
His Zenths, they just play and play.
From Uncle Sam to ol' Delco,
His 'lectronics it just go go go...
And he says "Warmly," kidding us Yankees--
Yeah, "Warmly" from Orlando near Disney's.
(...etc...) *

See? <grin> On the other hand, an awful lot of us have owned British cars. This is indicative of something, but with an MG sitting in the garage I'd as soon not guess what!

73,
--Bobbi (disc-jockey back in the Dark Ages)

(*To the tune of a Lou Reed song they really shouldn't have played on the radio, but did anyway 'til the managers listened to the lyrics.

It's all the BBC's fault).

From boatanchors@theporch.com Wed Apr 12 22:08:02 1995
Date: Wed, 12 Apr 1995 18:50:42 -0500
Message-Id: <9504122348.AA18426@uvs1.orl.mmc.com>
From: padgett@tccslr.dnet.mmc.com (A. Padgett Peterson, P.E. Information Security)
Subject: Re: Re2: Collectibles, What's My Line

OY ! Well at least I know that the clockworks on the inside goes. (If you missed Fozzi, you are guaranteed to miss that one 8*).

A/C on today,
Padgett

From boatanchors@theporch.com Wed Apr 12 18:52:42 1995
Date: Wed, 12 Apr 1995 15:52:08 -0500
Message-Id: <7977719879.7225860@AppleLink.Apple.COM>
From: FRANCIS4@applelink.apple.com (Francis, Dexter)
Subject: Re2: Collectibles, What's UR P

Padgett signs: "Warmly"

That's it! Boatanchor drivers have hearts (hertz?) with heaters.

-df

From boatanchors@theporch.com Thu Apr 13 02:04:53 1995
Date: Wed, 12 Apr 1995 22:59:46 -0500
Message-Id: <9504130400.AA47163@acs6.acs.ucalgary.ca>
From: "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>
Subject: Rectifier Tubes-5V4 vs 5U4

Folks:

This is a question Hank can likely answer in his sleep:

Consider the 5V4 rectifier tube: (Indirectly heated cathode)
Filament (Heater) current 2A @ 5V
Max AC Voltage per Plate: 400V
DC Output Current 200 mA
Max Inverse Peak Voltage 1100 V

And the 5U4 rectifier tube: (Filament type)
Filament current 3A @ 5V
Max AC Voltage per Plate: 500V

DC Output Current 250 mA
Max Inverse Peak Voltage 1400 V

Pin connections of both tubes are the same:

4, 6 plates 2,8 filament in 5V4 cathode is also tied to pin 8.

My question is: Assuming that the transformer can supply the extra amp of filament current, can a 5U4 be used as a "plug and play" replacement for a 5V4? What is the advantage of the seperate cathode in the 5V4 vs. the directly heated cathode in the 5U4?

I have a Heath PS-3 power supply with a 5V4 which appears to be possibly on its last legs. Have no spare 5V4's but several spare 5U4's.....

73, Deane D McIntyre VE6BP0
dmcintyr@acs.ucalgary.ca

From boatanchors@theporch.com Thu Apr 13 00:45:21 1995
Date: Wed, 12 Apr 1995 21:35:32 -0500
Message-Id: <9504122113.aa19140@jackatak.theporch.com>
From: Fire Bottle archive handler <firebotl@jackatak.theporch.com>
Subject: Reposts of posts...Please *don't* try again

Gang-

First, this is *NOT* aimed at any individual... it is broadcast and does not mean to impune anyone...

Several of you have experienced mailer problems (probably without your even having been aware of it ;) and several of you have taken it upon yourselves to post something like this:

"

I tried to post this yesterday but something happened (or didn't happen). If anyone gets this twice, apologies.

REPOST:

"

PLEASE don't just repost because you don't see a reply at your end...please...

There are times when mailer problems crop up, or the network gets a bit flakey, and sometimes we don't handle how mail gets sent or

deferred as perhaps we ought to... forgive us, we are learning...

I am covered up with headaches from messages to "full mailbox" or "disk quota exceeded" and user unknown. Since some of these hassles may be caused on this end, I try to track each down and verify before unsubscribing anyone...

This extra step makes for a great deal of extra work, and when additional "reposts" come along, they just add to the load.

There are ways, if one will be a tad patient, of checking the digest to see if the post made it to the list and back out in the digest. If it did, perhaps the error (and hence the reason you didn't see the post) is on *your* end...

Please be considerate of everyone on the list and be patient. If a post doesn't show up in your mailbox within 5 minutes of posting, do not send another right away! Please?!?

I have waded through DOZENS of posts where the exact message was resent, again and again... and since no new verbage was added at the front (or back) the checksum matches an already distributed post, and so the error is sent to me...

So, if you ABSOLUTELY JUST HAVE TO SEND IT AGAIN, send exactly the same message, so the list processor can weed things out... if you don't get it the second time, it is probably because there was an error somewhere, and the second post was swallowed. Write me at the listown account if you must, but PLEASE keep the extra repost traffic off the list...

Thanks in advance.

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -

Jack GF Hill	Voice: (615) 459-2636	Ham Call: W4PPT
* P. O. Box 1685	Modem: (615) 377-5980	Bicycling and SCUBA Diving *
Brentwood, TN 37024	Fax: (615) 459-0038	Life Member - ARRL
* listown@jackatak.theporch.com		firebot1@jackatak.theporch.com *

From boatanchors@theporch.com Wed Apr 12 21:53:45 1995

Date: Wed, 12 Apr 1995 18:23:28 -0500

Message-Id: <199504122322.QAA27713@hobbes.UCSC.EDU>

From: haynes@cats.ucsc.edu (Jim Haynes)

Subject: Tektronix Industrial Design

The Tek scopes cited by Hank van Cleef with the rounded blue side panels were the second-generation models. I remember some of the very early Tek scopes had a more conventional boxy shape; and if I remember correctly some of them were gray rather than blue.

Another Tektronix innovation (not adopted by anybody else that I know of) were the silvered-ceramic terminal strips on which all the parts were mounted. And telling you it was OK to put the whole thing into the bath tub when it got dirty.

From boatanchors@theporch.com Wed Apr 12 01:00:02 1995
Date: Tue, 11 Apr 1995 22:16:56 -0500
Message-Id: <9504120310.AA14634@uvs1.orl.mmc.com>
From: padgett@tccslr.dnet.mmc.com (A. Padgett Peterson, P.E. Information Security)
Subject: Re: The Collectible Trap?

Larry Kenan - K06SM rites:

>I think that the Hallicrafters S-38 was designed by Raymond Lowey, one of
>the really famous Industrial Designers of the period (1946). Among other
>things, he also did the 1946 to 1955 Studebakers. I guess beauty is in the
>eye of the beholder.

Well it took him until the '53 model to come up with the Starlight coupe which will look good forever but before that, well, about the best thing you can say is "a bear's natural habitat".

Warmly,
Padgett

ps now if anyone should happen to come across a nice Studillac...

From boatanchors@theporch.com Wed Apr 12 12:00:24 1995
Date: Wed, 12 Apr 1995 09:05:45 -0500
Message-Id: <Pine.LNX.3.91.950412080106.14913D-100000@thelair.zynet.com>
From: johnb@thelair.zynet.com
Subject: Re: The Collectible Trap?

On Tue, 11 Apr 1995, Kenan, Larry wrote:

>
> Hank vanCleef wrote:

[snip]>
> I think that the Hallicrafters S-38 was designed by Raymond Lowey, one of
> the really famous Industrial Designers of the period (1946). Among other
> things, he also did the 1946 to 1955 Studebakers. I guess beauty is in the
> eye of the beholder.

hmmm... always thot the 28 was the Lowey design... and I suppose that beauty IS in the eye of the holder. WHile I deem the 38 a plain little box, the 28 is a recognizable "period piece" given its deco design. :-)

Ain't this stuff fun!!

John M. Brewer wb5oau
johnb@thelair.zynet.com

From boatanchors@theporch.com Wed Apr 12 19:22:37 1995
Date: Wed, 12 Apr 1995 14:27:53 -0500
Message-Id: <199504121924.0AA05292@zoom.bga.com>
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: The Collectible Trap?

As johnb@thelair.zynet.com said

>

> On Tue, 11 Apr 1995, Kenan, Larry wrote:

>

> >

> > Hank vanCleef wrote:

Nawwww---the idea that the S-38 was designed by Loewy when I said it was plug-ugly was somebody's response.

>

> [snip]>

> > I think that the Hallicrafters S-38 was designed by Raymond Lowey, one of
> > the really famous Industrial Designers of the period (1946). Among other
> > things, he also did the 1946 to 1955 Studebakers. I guess beauty is in the
> > eye of the beholder.

>

> hmmm... always thot the 28 was the Lowey design... and I suppose that
> beauty IS in the eye of the holder. WHile I deem the 38 a plain
> little box, the 28 is a recognizable "period piece" given its
> deco design. :-)

>

> Ain't this stuff fun!!

>

Loewy consulted on the S-40 and SX-42. I doubt that he got anywhere near the S-38. No industrial designer would have put those unequal semicircles next to each other, much less emphasized them in the sheet metal. Loewy's contribution here seems to be similar to his contribution to the GG-1 locomotive project. The original GG-1, built before Loewy got involved, looked like the later ones, but was rivetted together. Loewy rounded off a few sharp corners, specified butted joints welded together, and added the paint stripes.

Most of the old boatanchor stuff is handsome---like a moose. One can

only wonder what might have happened if someone like Brooks Stevens (who, to my mind, would have gone much deeper than Loewy) had gotten involved. Imagine an HRO finished in ****colors****, with the case one color and the panel another. I recently heard a rumor about an HRO-5 getting refinished a deep blue.

I have always felt that one thing that sold the Tek 530-series scopes in the early fifties was the design of the panels and cases. Remember that Tektronix, in 1952, was both a garage operation, and a minor player in the scope market. Look at one of these scopes, and you see a brushed aluminum front panel mounted over the physical-strength panel, with photo-etched and filled legends (never wear off), and bright red knobs mixed with the black; and a pair of curved powder blue (read "feminine") side panels that come off easily for service.

One can only imagine what someone like Bucky Fuller would have done to come up with a "Dymaxion" communications receiver.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Wed Apr 12 20:49:39 1995
Date: Wed, 12 Apr 1995 16:54:41 -0500
Message-Id: <199504122152.RAA09652@shiva.shiva.com>
From: John Shriver <jas@shiva.com>
Subject: Re: The Collectible Trap?

Date: Wed, 12 Apr 1995 14:27:53 -0500
From: Henry van Cleef <vancleef@bga.com>

I have always felt that one thing that sold the Tek 530-series scopes in the early fifties was the design of the panels and cases. Remember that Tektronix, in 1952, was both a garage operation, and a minor player in the scope market. Look at one of these scopes, and you see a brushed aluminum front panel mounted over the physical-strength panel, with photo-etched and filled legends (never wear off), and bright red knobs mixed with the black; and a pair of curved powder blue (read "feminine") side panels that come off easily for service.

Especially when you consider what the early production 530-series scopes looked like. They had a square cornered front panel, that wasn't nearly as nicely styled. The case was also square cornered, and didn't have the two handy side panels. It was one giant box that you had to pull off the back of the scope after lying it on its face. The case was also a much uglier color, a dirty brown. The new case was both a visual and practical improvement.

Similarly, this is about the same time the big square scope carts were replaced by the 200-series "Scopemobile", with the tiltable top tray. It too looks really nice, very space age.

The Tek tube scopes are wonderfull industrial styling. They later changed to charcoal grey knobs and even brighter red knobs, that's the vintage of my 564B and 2/3 series plugin collection. (Still looking for a 3A9. Anyone have one?) The insides of the plugins are every bit as nice as the outside, which is an extra bonus. (OK, some of the PC board ones are somewhat of a letdown, I do prefer the ceramic strips.)

The panels are also well laid-out, and are generally really very easy to use. Of the 2/3 series, only a 3A74 is really too cramped to use easily (it's the 4-trace plugin), they just didn't have the panel room that was available on the M and the 1A4.

Now if only the cardboard handles weren't such total junk! These broken and rusted handles are always a letdown on an otherwise gleaming machine. By the 549, they finally wised up and used a better rubber handle.

From boatanchors@theporch.com Wed Apr 12 17:52:37 1995

Date: Wed, 12 Apr 1995 14:47:08 -0500

Message-Id: <9504121939.AA17641@uvs1.orl.mmc.com>

From: padgett@tccslr.dnet.mmc.com (A. Padgett Peterson, P.E. Information Security)

Subject: Re: the VT-4C

>the point of all this is: you bet the audio people are into tubes! And it
>looks like for audio there is something of a small resurgence in the use of
>tubes. You should also see the prices they get for some of these tubes.

Have seen this before and is the type of thing that drives the reproduction market. IMNSHO be glad it is happening while there are still some plants in the world capable of building toobs because this is the only way they are going to stay available at all.

Point is that with none being manufactured, when they run out, they run out, and the audio crowd may make it happen quicker but that is all. If there is a real demand, production may begin again.

Repopers *always* get something rong in the first batches, but quality improves dramatically and quickly or they do not stay in business. The hard part is being able to make toobs at all, the easy part is making them right.

Warmly,
Padgett

ps any ideas on how to make the audio crowd decide they need 1L6s ?

From boatanchors@theporch.com Wed Apr 12 18:52:33 1995
Date: Wed, 12 Apr 1995 15:37:29 -0500
Message-Id: <199504122045.AA26809@elvis.b11.ingr.com>
From: dlkerl@elvis.b11.ingr.com (Dan Kerl)
Subject: Transformer Construction - Material Sources?

This is a request for information.

I'm trying to learn how to make transformers - line power, audio, modulation and other types of laminated-core devices. I've found pretty good information sources for design and have received invaluable tips from persons on the net.

Currently, I'm trying to locate supplies - laminations, wire and insulation materials. I'm currently getting laminations from old, burnt-up power transformers (admittedly an inflexible source). Wire is not impossible to find either, if I am successful in talking a local motor shop into selling me some in the AWG I need. The thing I'm finding the most problems in locating is the insulating materials. While adequate for experimentation, kraft paper from cut-up grocery bags is not my idea of stable insulation. There are many types of sheet insulation and tapes available, made from modern materials (nomex, polyimide, etc.) that would allow me to improve me quality and to make transformers safer. So far, I've had no luck in locating a supplier for these materials. I've also noticed that most suppliers are unwilling to deal with individuals.

I would like to know if anyone has had any positive experiences and could recommend vendors for

laminations in a variety of sizes and alloys (also cut-cores)

magnet wire in most common gauges and with modern insulation

insulation materials - bobbins, sheet materials, tapes

miscellaneous parts; end bells, terminals, etc.

that were willing to sell to individuals in less-than-pallet-sized quantities. (and at reasonable prices).

I do appreciate any info on this.

Thanks,

Dan Kerl
dlkerl@ingr.com

From boatanchors@theporch.com Wed Apr 12 10:15:52 1995
Date: Wed, 12 Apr 1995 07:37:48 -0500
Message-Id: <1AD693D3E92@s1.xetron.com>
From: "Jack Giehl" <JACKG@s1.xetron.com>
Subject: Re: WANTED Drake AC4 power supply

Dear BA enthusiasts.

Richard said he was looking for an AC4 power supply.
Try checking in to the Drake net on Saturday evenings
at 8:00 PM EST on 3865 kc. There is a lot of trading
and selling of Drake and other BA type gear.

Jack

73,

=====
Jack, WB8BFS
jackg@xetron.com Loveland, Ohio (near Cincinnati)
"Peak the grid, dip the plate, and keep the fire in the wire."
=====

From boatanchors@theporch.com Thu Apr 13 01:25:13 1995
Date: Wed, 12 Apr 1995 22:22:50 -0500
Message-Id: <950412225835_81401046@aol.com>
From: WJoeW@aol.com
Subject: Wanted: Coils for National FB-7

I am looking for coils for an ancient (1933) National FB-7. This is a
pre-HR0 receiver. These are individual coils with a finger pull. One coil
is marked DET and one OSC. If any of you folks out in BA land have an extra
coil or two lying around, I would be interested.

Let me know the frequency range, whether DET or OSC and how much you need for
them.

Thanks.

Joe, N5ZYA

From boatanchors@theporch.com Wed Apr 12 23:43:15 1995
Date: Wed, 12 Apr 1995 20:52:30 -0500
Message-Id: <199504130150.SAA17524@desiree.teleport.com>
From: ross@hypertools.com (David Ross)

Subject: What's a 51H-3?

Has anyone out there ever heard of a Collins 51H-3? It's supposedly an HF receiver, made shortly after WWII. Anyone got one, or a manual, or a photo?

thanks & 73

Dave Ross KA6EPI

From boatanchors@theporch.com Thu Apr 13 02:39:57 1995
Date: Wed, 12 Apr 1995 23:50:13 -0500
Message-Id: <Pine.3.89.9504122135.A14928-0100000@netcom23>
From: paul Veltman <veltman@netcom.com>
Subject: Re: What's a 51H-3?

On Wed, 12 Apr 1995, David Ross wrote:

> Has anyone out there ever heard of a Collins 51H-3? It's supposedly an
> HF receiver, made shortly after WWII. Anyone got one, or a manual, or a photo?
>
> thanks & 73
> Dave Ross KA6EPI

Dave,

The only thing I can think of is the 51J series 1-4. The rear of the cabinet slopes. It is general coverage. It has a black wrinkle finish front panel.

Does that sound like the rig?

73

Paul WA6OKQ

From boatanchors@theporch.com Wed Apr 12 12:10:38 1995
Date: Wed, 12 Apr 1995 09:17:17 -0500
Message-Id: <950412101426_80541578@aol.com>
From: CarlHeintz@aol.com
Subject: Whats a HQ-180c Worth?

What is a good HQ-180c with clock and speaker worth? This is the one that has the flip top lid.

While we're at it, what's an HQ 170 in good condition worth?

From boatanchors@theporch.com Wed Apr 12 12:15:07 1995
Date: Wed, 12 Apr 1995 09:05:03 -0500

Message-Id: <9504121402.AA28926@speckle.ncsl.nist.gov>
From: morgan@speckle.ncsl.nist.gov (Roy Morgan)
Subject: Re: Why the VT-4C for Audio?

Tony Stalls Wrote:

>I understand that the VT-4C's used in the BC-375 as oscillator, modulators
>and amplifier are scarce because of demand by the "high-end" audio crowd.
>What makes them so special for that purpose?

There's another reason that they are hard to find: they haven't been made
for MANY decades.

They are good audio tubes because they were built to be audio tubes. A
directly heated cathode triode is a good audio tube for many reasons. Some
are: unusual linearity in Class A mode, the way it "distorts" when driven
into the regions of non-linearity. Related to this, the 211 was designed
for class B operation also. The ability of the grid to be driven positive
into conduction without excessive distortion of the plate current, or damage
to the grid, is important if the tube is run that way (as, for example, in
push-pull audio modulators delivering up to 200 watts.)

There seems to be a characteristic of these tubes that they get even more
linear if the plate voltage is increased to the normal maximum level.
(Apparently most pentodes and tetrodes do not behave this way.) The 211 and
the similar 845 have been reported to sound much better at 1250 volts than
they do at 900 or 1000.

Most directly heated power triodes have a multi-section filament arranged in
a flat plane. This seems to create the effect of a continuous flat cathode.
The relationship of the grid and plate structure in combination with this
cathode behavior seems to produce an unusual sound. Note that some modern
tubes like the 6DJ8 have planar grid structures located very near the
flat-sided cathodes. This would bear out the idea that flatness of the
elements and uniformity of the electron fields is good. The 6DJ8 is greatly
favored in preamp use.

And the most important factor may be that they look impressive :-)

--

Roy --

Roy Morgan / Tech A-266 / NIST / Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 Internet: morgan@speckle.ncsl.nist.gov

From boatanchors@theporch.com Wed Apr 12 13:07:05 1995
Date: Wed, 12 Apr 1995 09:38:47 -0500
Message-Id: <199504121436.KAA09945@cc01du.unity.ncsu.edu>
From: rdkeys@unity.ncsu.edu
Subject: Re: Why the VT-4C for Audio?

>
> I understand that the VT-4C's used in the BC-375 as oscillator, modulators
> and amplifier are scarce because of demand by the "high-end" audio crowd.
> What makes them so special for that purpose? Surely there is a better
> tube.

>
> +-----+
> | Tony Stalls, K4KY0 |
> | Arlington, VA |
> | ras@us.net |
> +-----+

They are a fine generic 50 watter triode bottle, with a fine DC to 15 mhz or so response. They have always been classically used in modulators and audio equipment for a 50 watt stage. Hence, they were cheap and adaptable to the audio buttheads, especially the Japanese audio freaks. I used to have a bunch of them 50 watt beasts for my Hartley oscillators, but, sadly, I am now down to two spares..... (:+{{....., used, at that..... But, I know where mine went..... to a collector friend in his BC-375's et al. And, if I really need one, he will slip me one for the road.

But, the Japanese audio freaks are buying them up wherever, however they can lay hands on them. I started running into that problem back about 10 years when I was asking around the Antique Wireless Association meet up in Rochester, and several fellas there made the comment that some Japanese fellows were buying up everything they had at twice what the going collector rate then was (about 10 bucks a bottle). Since about that time (1985 or so), they have been getting scarce as hen's teeth. I have heard from several folks that great quantities of the military surplus VT-4C's went overseas about that time. I am unable to verify this firsthand, but I have heard the report from enough different sources to think that there may be something to it.

Maybe we should get the Chinese or the Eastern Block tube makers to make one final run of '01A's, 10's, and 211's for the sake of posterity, and to keep the costs from going through the roof.

Treasure yer 50 watter bottles, cuz them's fair game fer de audio freaks, and I prefer us RF freaks over them lowlife audio types.....
A set of push pull 211's could EASILY blow yer ear drums into oblivion

if properly coupled to proper speakers into any sized room.
One does NOT need that kind of audio power even for classical music
in class A or B mode. I guess the audio types are bent on one-upsmanship.

Obviously, I am a bit biased on this one, since the 211/VT-4C is my
favorite and most reliable 50-100 watt Hartley oscillator tube.
Why couldn't the audio freaks have chosen something like 833's for
their madness and left us our warm softly glowing 211's?

Oh, well..... guess it is time to start using 833's in the Hartleys.....

Next it will be 833's that skyrocket in price..... (:+{f{.....

73/Bob/NA4G

p.s. slightly pissed off and biased on this one..... (:+{f{.....
I don't mean to come down on the Japanese, but I am a bit
down on anyone hoarding the stocks just to run prices up,
perhaps? Since the bottles last a LONG time in any service,
there is no need to hoard them, in reality. I hope the audio
freaks know that they can be run at reduced filament voltage
to conserve tube life, and that they will peak at several
hundreds of audio watts, quite easily. In most audio service
the tube is basically at idle. If dead-head rockers want to
get hold of audio power, let them use 833's. Then I guarantee
they will be deaf and dumb by age 40. Most audio types I have
run into tend to blow tubes first and buy mega spares, rather
than understand how to properly run their tubes.... Oh, well.

p.p.s can you imagine a ``modern'' version of the BC-375 using
an 833 oscillator and an 833 rf stage..... (:+{f{.....
Let's see, scale up the size about a factor of three, and.....
Ahhhhh, that would make my day.....!

From boatanchors@theporch.com Wed Apr 12 13:53:46 1995
Date: Wed, 12 Apr 1995 10:53:09 -0500
Message-Id: <Pine.BSI.3.91.950412112736.532G-100000@laurel.us.net>
From: Tony Stalls <ras@us.net>
Subject: Re: Why the VT-4C for Audio?

On Wed, 12 Apr 1995 rdkeys@unity.ncsu.edu wrote:

> But, the Japanese audio freaks are buying them up wherever, however they
> can lay hands on them. I started running into that problem back about
> 10 years when I was asking around the Antique Wireless Association meet
> up in Rochester, and several fellas there made the comment that some
> Japanese fellows were buying up everything they had at twice what the
> going collector rate then was (about 10 bucks a bottle).

I may have mentioned this before, but the same thing happened at the Japanese Sword Society of the US show a few years back. Some Japanese guys showed up literally with leather camera bags full of cash and were buying up the fine Japanese swords at outrageously above market prices. I'm talking about \$20,000 a pop here too! (A JSSUS show is depressing if you want to buy anything. Prices on fairly decent specimens start at somewhere around \$2000.)

> p.s. slightly pissed off and biased on this one..... (:+{f{.....
> I don't mean to come down on the Japanese, but I am a bit
> down on anyone hoarding the stocks just to run prices up,
> perhaps?

Well, just because it happens to be a thing that Japanese audiophiles are doing is no reason to believe that we should be PO'ed at the whole Japanese society. Look at World War II for that matter. Did the whole place start the war, or was it a few powerful politicians?

That being said, I'm beginning to accumulate a good bit of animosity toward those who would destroy our beloved BA's to serve their boneheaded (!) wants. I certainly have no love for the audiophiles who buy BC-375's and BC-191's to strip out the 211's, nor do I care for the jerk aircraft restorers who gut otherwise mint radio sets and save the shell to save weight. I'm a little miffed at Sam Hevener after he told me that he caters to the latter bunch. I guess that explains Sam's high prices since a gazillionaires restoring a vintage warbirds probably think nothing of paying \$600-700 for a rack of command sets.

> If dead-head rockers want to get hold of audio power, let
> them use 833's. Then I guarantee they will be deaf and dumb by
> age 40.

I don't know about the "deaf" part, but the "DUMB" (and dumber?) comes a lot sooner than 40! ;^)

> p.p.s can you imagine a ``modern'' version of the BC-375 using
> an 833 oscillator and an 833 rf stage..... (:+{f{.....
> Let's see, scale up the size about a factor of three, and.....
> Ahhhhhh, that would make my day.....!

What a great idea! Let's get started!!!

73,

Tony
K4KY0

From boatanchors@theporch.com Wed Apr 12 15:43:28 1995
Date: Wed, 12 Apr 1995 12:16:32 -0500
Message-Id: <d0aqVC80000000000000@MHS>
From: RICHARD_HUMPHREY@hp5200.desk.hp.com
Subject: Re: Why the VT-4C for Audio?

Item Subject: Re: Why the VT-4C?
It's my understanding that triodes run class A are very 'hot' with
some of the audio golden-ears bunch.

Class A, being so inefficient, needs a big power tube to get any real
power output. How they latched onto the VT-4C is anybody's guess.

Last year at Foothill, I overheard two of these folks talking audio,
and one of them said 'these hams don't have a clue'. It's time we
got a clue. Maybe we shouldn't sell parts to anybody without a
license! No license, you pay the audio crowd price!
Richard
N6NAE

From boatanchors@theporch.com Wed Apr 12 16:09:41 1995
Date: Wed, 12 Apr 1995 14:24:17 -0500
Message-Id: <9504121922.AA03751@speckle.ncsl.nist.gov>
From: morgan@speckle.ncsl.nist.gov (Roy Morgan)
Subject: Re: Why the VT-4C for Audio?

ras@us.net Said:
> nor do I care for the jerk aircraft
>restorers who gut otherwise mint radio sets and save the shell to save
>weight. ... \$600-700 for a rack of command sets.

Bit of wisdom bestowed by an aircraft tour guide at a recent Confederate Air
Force-sponsored show:

Q: How does a warbird owner get to be a millionaire?

A: Start with ten million, and restore an airplane.

--
Roy --

Roy Morgan / Tech A-266 / NIST / Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 Internet: morgan@speckle.ncsl.nist.gov

From boatanchors@theporch.com Wed Apr 12 20:19:17 1995
Date: Wed, 12 Apr 1995 16:53:26 -0500
Message-Id: <199504122159.AA27750@elvis.b11.ingr.com>
From: dlkerl@elvis.b11.ingr.com (Dan Kerl)
Subject: Re: Why the VT-4C for Audio?

> Item Subject: Re: Why the VT-4C?
> It's my understanding that triodes run class A are very 'hot' with
> some of the audio golden-ears bunch.
>
> Class A, being so inefficient, needs a big power tube to get any real
> power output. How they latched onto the VT-4C is anybody's guess.
>

The audio folks have become enamored with single-ended directly-heated triode amplifiers with little or no global negative feedback applied. It takes extremely linear devices to keep the harmonic distortion down to acceptable levels - something the 211/VT-4C is apparently good at. The 845 is also being used in these applications. Output transformers are a pain, since the core is magnetized with the output tube's plate current. Triodes are less affected with variances in load reactance and have lower dynamic plate resistance than the more-efficient beam tetrodes that are common in audio applications.

Audio Note Japan sells a stereo amplifier that uses these in single-ended mode - one per channel. It puts out 20-30 watts/channel and costs in the \$30K range.

Apparently this market is active enough that Westrex (Western Electric) is tooling back up to produce the venerable 300B triode, which the price for NOS units has gotten into the \$500 range. (save those old theater amps!)

Since these amps put out relatively little power (when compared to some of the modern solid-state amps) the audio folks are now focusing their attention on efficient loudspeakers, which will probably cause a price run-up on old Klipsorns, Altec, JBL and Tannoy drivers, etc.

I do find it irritating that speculative buying on the part of some individuals is rapidly making hobbies involving tubes rapidly unaffordable (oooh, was that too politically-incorrect? :-)

Dan Kerl
dlkerl@ingr.com